



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of)	AUG 0 1 2002
Michael A. Innis et al.) Examiner: Eliane Lazar-Wesley	CH CENTER 1600/2900
Serial No. 09/639,273) Group Art Unit: 1646	
Filed: August 15, 2000) Atty. Dkt. No. 012441.00002	

For: Production of Tissue Factor Pathway Inhibitor

SUBMISSION OF EXECUTED DECLARATION UNDER RULE 132

The Honorable Assistant Director of Patents
Washington, D.C. 20231

Sir:

Applicants submitted an unexecuted Declaration of Dr. Abla Creasey under Rule 132 on July 29, 2002. Applicants submit herewith the signed and dated Declaration. No fee is believed due to make this submission filed timely. If any fees are due please charge our Deposit Account No. 19-0733.

Respectfully submitted,

Date: July 31, 2002

Michelle L. Holmes-Son Registration No. 47,660

Banner & Witcoff, Ltd. 1001 G Street, N.W., Eleventh Floor Washington, D.C. 20001-4597 (202) 508-9100



PATENT

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DECLARATION UNDER RULE 132

I, Abla A. Creasey, hereby declare:

- 1. I am named as a joint inventor of the application referenced above.
- 2. I am an employee of Chiron Corporation, and all of the work described in the application was performed at Chiron Corporation.
- 3. In my experience, the activity of TFPI expressed in and purified from Saccharomyces cerevisiae as described in the above-identified application is similar to the activity of TFPI expressed in and purified from mammalian baby hamster kidney (BHK) cells.
- 4. Experiments conducted in our laboratories have demonstrated that the activity of TFPI expressed in and purified from S. cerevisiae as described in the application is also similar to the activity of TFPI expressed in and purified from E. coli.
- 5. The activity of TFPI expressed in and purified from *E. coli* is nearly identical to the activity of TFPI expressed in and purified from mammalian C127 cells. See Ho *et al.* (*Blood*, 95, 2000, 1973-1978; Exhibit 1), which teaches that TFPI expressed in and purified from mammalian C127 cells inhibits factor Xa activity similarly to TFPI expressed in and purified from *E. coli*. (See Fig. 2 and page 1975, column 2, lines 1-5.)
- 7. The TFPI expressed in and purified from E. coli used by Ho et al. was also used to determine that the S. cerevisiae-expressed and purified TFPI described in the application has activity that is similar to E. coli-expressed and purified TFPI. Ho et al. obtained the E. coli-



purified TFPI from Monsanto Company (Exhibit 1, page 1973, second column, lines 8-9, of the Materials and Methods.) Monsanto Company and Chiron corporation have a joint venture on the TFPI project, whereby Chiron manufactures *E.coli* expressed TFPI and provides purified TFPI to Monsanto and collaborators. 8. The activity of TFPI purified from C127 cells is similar to the activity of TFPI purified from BHK cells. See Wun et al. (Thrombosis and Haemostasis, 68, 1992, 54-59; Exhibit 2), which teaches that TFPI expressed in and purified from C127 cells has similar factor Xa inhibitory activity as TFPI expressed in and purified from BHK cells. (Page 56, column 2, lines 34-39.) See also Nordfang et al. (Biochemistry, 30, 1991, 10371-10376; Exhibit 3), which teaches that TFPI expressed in and purified from C127 cells has similar anticoagulant activity in a PT coagulation time assay to TFPI expressed in and purified from BHK cells. (Page 10371, column 2, lines 12-20.) Valentin et al. (Blood Coagulation and Fibrinolysis, 2, 1991, 629-635; Exhibit 4) also teaches that TFPI expressed in and purified from C127 cells has similar anticoagulant activity in a clotting time assay to TFPI expressed in and purified from BHK cells.

- 12. The activities of TFPI expressed in and purified from *S. cerevisiae* as described in the application, TFPI expressed in and purified from *E. coli*, TFPI expressed in and purified from C127 cells, and TFPI expressed in and purified from BHK cells are all similar. Therefore, the activity of the TFPI that is expressed in and purified from *S. cerevisiae* as described in the application is similar to the activity of TFPI expressed in and purified from BHK cells.
- 13. I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these were made with the knowledge that false statements made willfully are punishable by fine, imprisonment, or both a fine and imprisonment under Section 1001 of Title 18 of the United States; and further that false statements made willfully may jeopardize the validity of any patent issuing on an application in which the false statements were made.

Date 7/25/02	Abla A. Creasey
	Abla A. Creavery

PTO/SB/21 (08-00) Approved for use through 10/31/2002. OMB 0651-0031 Please type a plus sign (+) inside this box —> [+] U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB Application Number 09/639,273 TRANSMITTAL AUG 01 Filing Date August 15, 2000 3 1 2002 **FORM** First Named Inventor Michael A. Innis et al TECH CENTER 1 600/2900 (to be used for all correspondence after initial filing) 1646 **Group Art Unit Examiner Name** Eliane Lazar-Weslev Total Number of Pages in This Submission Attorney Docket Number 012441.00002 ENCLOSURES (check all that apply) After Allowance Communication to Assignment Papers Fee Transmittal Form (for an Application) Group Appeal Communication to Board of Fee Attached Drawing(s) Appeals and Interferences Appeal Communication to Group Amendment / Response Licensing-related Papers (Appeal Notice, Brief, Reply Brief) Petition After Final Proprietary Information Petition to Convert to a Provisional Application Status Letter Rule 132 (Executed) Power of Attorney, Revocation Other Enclosure(s) Extension of Time Request Change of Correspondence Address (please identify below): Submission of Executed Terminal Disclaimer **Declaration Under Rule 132** Express Abandonment Request Request for Refund Information Disclosure Statement CD, Number of CD(s) Certified Copy of Priority Remarks Document(s) Response to Missing Parts/ Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Michelle L. Holmes-Son, Reg. No. 47,660 Individual name Signature July 31, 2002 Date

Typed or printed name

Signature

Date

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CERTIFICATE OF MAILING

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